

Gumdrops and Toothpick Challenges

Challenge #1

Design a structure that can hold a textbook a few inches off the table, using gumdrops and toothpicks. What shape did you find to be the strongest? If your structure did not hold the book, use the engineering design process to make changes to your design. Try it again!

Challenge #2

Look at the picture of the geodesic dome. Try to design a dome. Why is this structure so strong? Try another type of structure and compare the two structures to determine which one is the strongest. Place some weight on both structures. Which one holds the most weight?